

## ABSTRACT OF THE DISCLOSURE

A catalyst for clarifying an exhaust gas which comprises a tetragonal system composite oxide produced by neutralization coprecipitation - drying - firing and represented by the general formula  $A_2B_4O_{14}$ , wherein A represents at least one selected from the group consisting of Ca, Sr and Ba, B represents at least one selected from the group consisting of Mn, Fe, Ti, Sn and V, and a noble metal component being present in said tetragonal system composite oxide as a solid solution or carried on the tetragonal system composite oxide; and a method for producing the tetragonal system composite oxide. The catalyst for clarifying an exhaust gas exhibits enhanced activity at a low temperature and excellent heat resistance, and thus stable performance for the clarification of an exhaust gas.